





**PAGER** Version 10

10,000

100,000

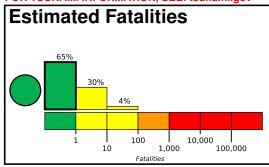
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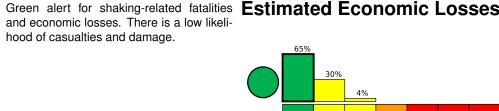
Created: 5 days, 17 hours after earthquake

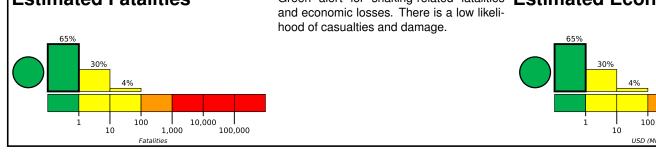
## M 4.7, 11 km E of Ocotillo, CA

Origin Time: 2023-12-01 07:43:26 UTC (Thu 23:43:26 local) Location: 32.7611° N 115.8868° W Depth: 4.1 km

FOR TSUNAMI INFORMATION, SEE: tsunami.gov







**Estimated Population Exposed to Earthquake Shaking** 

ESTIMATED POPULATION EXPOSURE (k=x1000)  ESTIMATED MODIFIED MERCALLI INTENSITY  PERCEIVED SHAKING		1,047k*	13,973k	874k	1k	0	0	0	0	0
		I	11-111	IV	V	VI	VII	VIII	IX	X+
		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
DAMAGE	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

<sup>\*</sup>Estimated exposure only includes population within the map area.

### Population Exposure

### population per 1 sq. km from Landscan **Structures** 5000

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

# 116.8°W 115.5°W 114.2°W

### **Historical Earthquakes**

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
1991-06-28	256	5.6	VI(1,267k)	1
1992-06-28	169	7.3	VIII(23k)	1
1971-02-09	294	6.6	IX(21k)	65

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

### Selected City Exposure

from GeoNames.org							
MMI	City	Population					
IV	Seeley	2k					
IV	Vinas del Sol	3k					
IV	Progreso	5k					
IV	Mexicali	597k					
IV	Calexico	39k					
IV	Heber	4k					
II	San Diego	1,307k					
II	Tijuana	1,376k					
II	Anaheim	336k					
II	Santa Ana	325k					
II	Riverside	304k					

bold cities appear on map.

(k = x1000)

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PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.